

Content

- Publications
- Talks
- Workshops and teaching
- Data sets

Publications

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- 2024 Matthias Arnold (ed.). *Klaus-Peter Arnold. Bibliographie. Mit ausgewählten Reden und Vorträgen von 1989 bis 2014*. Selbstverlag / arthistoricum.net. ART-Dok DOI: 10.11588/artdok.00008971.
- 2024 Heseler, Jörg, Alexandra Büttner, and Matthias Arnold. "Digitale Langzeitarchivierung. Eine Handreichung zur digitalen Langzeitarchivierung aus Perspektive der NFDI4Culture Community." V. 1.03. Zenodo. DOI: 10.5281/zenodo.10281971.
- 2023 Henke, Konstantin, and Matthias Arnold. "Language Model Assisted OCR Classification for Republican Chinese Newspaper Text (以語言模型輔助民國報紙文本的光學字元辨識分類)." In: 數位典藏與數位人文 12 期 (2023 年 10 月) (*Journal of Digital Archives and Digital Humanities*, Issue 12, 10.2023), 1-19. DOI: 10.6853/DADH.202310_(12).0001.
- 2023 Heseler, Jörg, Matthias Arnold, Alexandra Büttner, and Simon Worthington. "3D-Digitalisierung und Langzeitarchivierung – Umfrageergebnisse aus der NFDI4Culture Community" Zenodo. DOI: 10.5281/zenodo.8033535.
- 2023 Arnold, Matthias, Alexandra Büttner, Jörg Heseler, and Simon Worthington. "Digitale Publikationen im Kulturbereich: Beispiele und Eigenschaften – Umfrageergebnisse aus der NFDI4Culture Community". Zenodo. DOI: 10.5281/zenodo.7107214.
- 2023 Arnold, Matthias, Duncan Paterson, and Jia XIE. "Procedural challenges: the FAIR principles and PRC electronic resources - a case study of Chinese republican newspapers." In: Special issue "Digital Humanities and East Asian Studies," ed. Hilde De Weerdts and Aliz Horvath. *International Journal of Digital Humanities* 4 (2023), 147–170. DOI: 10.1007/s42803-022-00055-6.
- 2023 Arnold, Matthias. "Artificial Intelligence to analyze Chinese Periodicals". *CATS Arena* 3 (2022): 32 (online pdf).
- 2022 Arnold, Matthias, Nanette Reißler-Pipka, and Torsten Roeder. "Workshop "Korpusbildung" der DHd-AG Zeitungen & Zeitschriften – ein Rückblick." DHdBlog (blog). 28. Oktober 2022. <https://dhd-blog.org/?p=18534>.
- 2022 Arnold, Matthias. "Multilingual research projects: Challenges for making use of standards, authority files, and character recognition." *Digital Studies / Le champ numérique*, 12.1 (2022): 1-36. DOI: 10.16995/dscn.8110.
- 2021 Arnold, Matthias, and Henrike Rudolph. "Network Data in the Early Chinese Periodicals Online Database (ECPO)." In: *Journal of Historical Network Research*. 5.1 (2021): 288-302. [Special issue "Beyond guanxi: Chinese Historical Networks," ed. Song CHEN and Henrike Rudolph.] DOI 10.25517/jhnr.v5i1.118.
- 2020 Arnold, Matthias, Hans Martin Krämer, Hanno Lecher, Jan Scholz, Max Stille und Sebastian Vogt. "Möglichkeiten und Grenzen der Videoannotation mit Pan.do/ra - Forschung, Lehre und institutionelles Repositorium." In: *Bilddaten in den digitalen Geisteswissenschaften*. Hg. von Philipp Hegel und Canan Hastik. Wiesbaden: Harrassowitz, 2020, 231-254. [Episteme in

Bewegung. Beiträge zu einer transdisziplinären Wissensgeschichte, Band 16.] DOI: 10.13173/9783447114608 (open access pdf).

- 2020 Arnold, Matthias und Lena Hessel. "Transforming data silos into knowledge: Early Chinese Periodicals Online (ECPO)." In: *E-Science-Tage 2019: Data to Knowledge*. Hg. von Vincent Heuveline, Fabian Gebhard und Nina Mohammadianbisheh. Heidelberg: heiBOOKS, 2020, 95-109. DOI: 10.11588/heibooks.598.c8420.
- 2020 Arnold, Matthias, Hanno Lecher, and Sebastian Vogt. "OpenDACHS: ein Citation Repository zur nachhaltigen Archivierung zitierter Online-Quellen" In: *E-Science-Tage 2019: Data to Knowledge*. Hg. von Vincent Heuveline, Fabian Gebhard und Nina Mohammadianbisheh. Heidelberg: heiBOOKS, 2020, 236-237. DOI: 10.11588/heibooks.598.c8446.
- 2018 Arnold, Matthias, und Christopher Nunn. 2018. "If Kant Used a Computer... #DHD2018 ("Digital Humanities Im Deutschsprachigen Raum")." *Interdisciplinary Forum of Digital Textual Sciences (InFoDiTex)* (blog). 6. März 2018. <https://infoditex.hypotheses.org/64>.
- 2017 Volkmann, Armin, Matthias Arnold, Eric Decker. *Digital Humanities Strategies in Transcultural Studies*. Working paper. [Working Papers Digital Humanities at Heidelberg University.] Heidelberg, 2017. DOI: 10.11588/heidok.00023729.
- 2016 Heckmann, Dustin, Anette Frank, Matthias Arnold, Peter Gietz and Christian Roth. "Citation Segmentation from Sparse & Noisy Data: An Unsupervised Joint Inference Approach with Markov Logic Networks." In: *Digital Scholarship in the Humanities* 31.2 (2016): 333–56, DOI: 10.1093/llc/fqu061.
- 2015 Arnold, Matthias, and Armin Volkmann. "Heidelberger Forum Edition: Videointerview zu Early Chinese Periodicals Online." DHD-Blog, 4. Juli 2015. <http://dhd-blog.org/?p=5346>.
- 2015 Wübbena, Thorsten, Eric Decker, Matthias Arnold. "»Losing My Religion« – Einsatz der Videoannotationsdatenbank Pan.do/ra in der kunstgeschichtlichen Analyse von Musikvideos." In: *Grenzen und Möglichkeiten der Digital Humanities*. Hg. von Constanze Baum / Thomas Stäcker. 2015 (= Sonderband der Zeitschrift für digitale Geisteswissenschaften, 1). DOI: 10.17175/sb001_018.
- 2014 Sung, Doris, Liying Sun and Matthias Arnold. "The Birth of a Database of Historical Periodicals: Chinese Women's Magazines in the Late Qing and Early Republican Period." In *Tulsa Studies in Women's Literature* 33, no. 2 (2014): 227-37. Read online.
- 2014 Löbel, Jens-Martin, Heinz-Günther Kuper, Matthias Arnold, and Eric Decker. "Hachiman Digital Handscrolls: Semantische Anreicherung mit Hyperimage und Yenda." In: *Bienert, Andreas und Santos, Pedro (Hrsg.): Konferenzband EVA Berlin 2014. Elektronische Medien & Kunst, Kultur und Historie: 21. Berliner Veranstaltung der internationalen EVA-Serie: Electronic Media and Visual Arts, Heidelberg: arthistoricum.net, 2016 (2014) (EVA Berlin, Band 21) DOI 10.11588/arthistoricum.152.192, 262-267. ARThistorikum*.
- 2013 Sun, Liying and Matthias Arnold. "TS Tools: How to design a database of historical periodicals." In: *TS: Tijdschrift voor Tijdschriftstudies* (Periodical for Periodical Studies), July 2013: 73-78. Read online.
- 2011 Monroy, Antonio, Tobias Kröger, Matthias Arnold and Björn Ommer. "Parametric Object Detection for Iconographic Analysis." Submitted to

Scientific Computing and Cultural Heritage proceedings, July 07 - 09, 2011 in August 2011. Read online.

- 2009 Arnold, Matthias, Konrad Berner, Peter Gietz, Kilian Schultes and Roland Wenzlhuemer. "GeoTwain: Geospatial analysis and visualization for researchers of transculturality." In: *Workshop "Geospatial computing for the arts, humanities and cultural heritage," 5th IEEE International Conference on E-Science, Oxford, 9-11 Dec, 2009*, pp. 175-179. Read online.
- 2008 Arnold, Matthias. "Buddhist Stone Scriptures of Shandong, China." In: *EVA London 2008. Conference proceedings*, edited by Stuart Dunn, Suzanne Keene, George Mallen, Jonathan Bowen, London: The British Computer Society, 2008, pp. 1-8. Read online.
- 2006 Arnold, Matthias. "雲居寺の碑文——CD-ROM のための準備作業" (Historical Inscriptions at Cloud Dwelling Monastery: Preparations for a CD-ROM). In: 漢字文化研究年表 (*Journal of the study of Kanji Culture*), vol. 1 (2006.03), pp. 88-95. Read online.
- 2004 Arnold, Matthias. "Historical Inscriptions at Cloud Dwelling Monastery: Preparations for a CD-ROM." In 漢字文化の全き継承と発展のために：中國宗教文獻研究國際シンポジウム報告書 (*Toward an Overall Inheritance and Development of Kanji Culture: Proceedings of the Symposium "Religions in Chinese Script - Perspectives for Textual Research"*). 京都大學人文科學研究所 (Institute for Research in Humanities, Kyôto University): Kyôto, 2004, pp. 389-396.
- 2004 Janku, Andrea, and Matthias Arnold (eds.). *Programme for the XVth Conference of the European Association of Chinese Studies*. Heidelberg, August 25-29, 2004.
- 2002 Arnold, Matthias. "'Schätze für Zhao Mo. Das Königsgrab von Nan Yue'. A case study on implementing multimedia-elements in art-historical projects." M.A. thesis (East Asian Art History, Prof. Ledderose) and CD-ROM Project. DOI: 10.11588/artdok.00000040
- 1998 Arnold, Matthias. Catalog entries, bibliography, glossary. "Schätze für Zhao Mo. Das Königsgrab von Nan Yue", edited by Margarete Prüch. Heidelberg: Braus, 1998.
- 1997 Arnold, Matthias (ed.). "Die Ostasiatische Kunstgeschichte im deutschsprachigen Raum", annual newsletter of the Institute of East Asian Art History, Mitteilungsblatt No. 28 (September 1997).
- 1996 Arnold, Matthias (ed.). "Die Ostasiatische Kunstgeschichte im deutschsprachigen Raum", annual newsletter of the Institute of East Asian Art History, Mitteilungsblatt No. 27 (September 1996).

Talks

- 11/2023 "Die Universitätsbibliothek in der NFDI4Culture – TA4: Datenpublikation und Langzeitarchivierung." Heidelberg Center for Digital Humanities, lecture series "DH Insights", 2023-11-30. (Together with Lena Kunkel)
- 11/2023 "Die UB in der NFDI4Culture - Datenpublikation und Langzeitarchivierung." Universitätsbibliothek Heidelberg, Thema des Monats, 2023-11-07. (Together with Lena Kunkel)
- 07/2022 "Building an OCR Pipeline for a Republican Chinese Entertainment Newspaper." ADHO DH2022 conference, Tokyo, Long presentations 7-04 #385, 2022-07-28. (Together with Konstantin Henke) Abstract DOI: 10.5281/zenodo.6646899
- 06/2022 "Digital collections at CATS" and "CATS facilities and equipment for digitization and editing". CATS Forum, 2022-06-24. (Together with Hanno Lecher)
- 05/2022 "Early Chinese Periodicals Online (ECPO) – ein Projekt stellt sich vor." Konfuzius-Institut Heidelberg, online, May 31, 2022. (Together with XIE Jia, YIP Suk Man, and Konstantin Henke) Abstract. Slides DOI: 10.5281/zenodo.6610529. Video recording.
- 05/2022 "Humanities and FAIR data." Part of the workshop series "Open for you! An introduction series to open science" organized by the 4EU+ Alliance, online, May 9, 2022. (Together with Cécile Arènes and Océane Valencia) Abstract and video recording. Slides DOI: 10.5281/zenodo.6531506.
- 03/2022 "Building and Improving an OCR Classifier for Republican Chinese Newspaper Text." Poster presentation at the *8. Jahrestagung des Verbands "Digital Humanities im deutschsprachigen Raum," DHd2022*, online, March 10, 2022. (Together with Konstantin Henke.) Book of Abstracts, p.268-272. DOI: 10.5281/zenodo.6322593.
- 12/2021 "Building and Improving an OCR Classifier on Republican Chinese Newspaper Text." 第十二屆數位典藏與數位人文國際研討會 (*12th International Conference of Digital Archives and Digital Humanities*), 實用資料 X 數位人文」(Practical Data X Digital Humanities), 國立彰化師範大學 National Changhua University of Education, Taiwan, online, December 10-12, 2021. (Together with Konstantin Henke) Conference website. Slides.
- 10/2021 "Die Erschließung der republikzeitlichen chinesischen Presse: Der Einsatz von Ground Truth, Neuronalen Netzwerken und OCR im Langzeitprojekt 'Early Chinese Periodicals Online' (ECPO)." Series "Werkstattgespräche" of the Heidelberg Forum Digital Humanities, online, October 21, 2021. (Together with XIE Jia, YIP Suk Man, and Konstantin Henke)
- 09/2021 "Fair data principles and global accessibility: a case study." *41st Annual Meeting of the European Association of Sinological Librarians (EASL)*, online, September 8-10, 2021. (Together with Duncan Paterson and XIE Jia)
- 07/2021 "Database Presentation: Early Chinese Periodicals Online (ECPO)." Conference "Historical Network Research in Chinese Studies", online,

July 13-14, 30-31, 2021. (Together with Henrike Rudolph) Conference website. Slides. Video recording.

- 03/2021 "Ground Truth, Neural Networks, OCR: Towards Full Text of Republican China Newspapers." *Association for Asian Studies 2021 Virtual Annual Conference, AAS2021*, online, March 21-26, 2021. Watch presentation.
- 03/2021 "Semantic segmentation and document layout recognition - approaches to full text recognition of early Chinese newspapers." *NewsEye Conference*, online, March 16-17, 2021. Conference blog. Abstract. Watch presentation. Slides.
- 03/2021 "Der Austausch von Forschungsdaten in den digitalen Asienwissenschaften: Herausforderungen beim Einsatz maschineller Lernverfahren zur Volltexterschließung historischer chinesischer Zeitungen." *E-Science-Tage 2021: Share Your Research Data*, online, March 4-5, 2021.
- 10/2020 "Layouterkennung und Seitensegmentierung als Vorstufe zur Volltexterschließung - Early Chinese Periodicals Online." Workshop *Dokumentenerbe digital – Digitalisierung historischer Bestände baden-württembergischer Bibliotheken, OCR-Workshop*, organised by the University Library Heidelberg, October 16, 2020. Slides.
- 12/2019 "Schichten von (Meta-)Daten bei ‚Early Chinese Periodicals Online‘: Wege zur Öffnung eines Daten-Silos." Presentation to the *IT working group*, Heidelberg Academy of Sciences and Humanities, Heidelberg, December 04, 2019.
- 11/2019 "Data Levels in Early Chinese Periodicals Online: Approaches to Opening a Data Collection." Paper presented at the Workshop *Digital Humanities in Asian and East Asian Studies*, Centre for Asian and Transcultural Studies, Heidelberg, November 22-23, 2019. Programme.
- 11/2019 "Wege zur Erschließung der frühen chinesischen Presse." Paper presented at the Workshop *OCR - Herausforderungen und Lösungen für Zeitungen & Zeitschriften*, organised by the DHd AG Zeitungen & Zeitschriften, Frankfurt/Main, November 11, 2019. DOI: 10.5281/zenodo.5752478. Programme.
- 07/2019 "Ein Projekt nach dem Projekt. Der Turkologische Anzeiger Online." Paper presented at the *DH-workshop* organized by the initiative *Methods and Applications in digital humanities | Heidelberg (MAd|hD)*, Heidelberg, July 30, 2019.
- 07/2019 "Multilingual research projects: Challenges (and possible solutions) for making use of standards, authority files, and character recognition." Paper presented at the full-day workshop *Towards multilingualism in Digital Humanities: Achievements, failures and good practices in DH Projects with non-latin scripts (NLS)*, organized by Cosima Wagner and Martin Lee. ADHO DH2019 conference, Utrecht, 2019-07-08. Workshop exposé. Slides.
- 03/2019 "Transforming data silos into knowledge: Early Chinese Periodicals Online (ECPO)." Paper presented at *E-Science-Tage 2019, Data to Knowledge*, Heidelberg, March 29, 2019. (Together with Lena Hessel) Slides.
- 03/2019 "The Nepal Heritage Documentation Project (NHDP) and the Digital Archive of Nepalese Arts and Monuments (DANAM)." Poster

presentation at *E-Science-Tage 2019, Data to Knowledge*, Heidelberg, March 28, 2019. (Together with Ina Buchholz)

- 03/2019 "OpenDACHS. A Citation Repository for the Sustainable Archiving of Cited Online Sources." Poster presentation at *E-Science-Tage 2019, Data to Knowledge*, Heidelberg, March 28, 2019. (Together with Hanno Lecher and Sebastian Vogt)
- 03/2019 "The Nepal Heritage Documentation Project (NHDP) - a first introduction." Presentation to the *IT working group*, Heidelberg Academy of Sciences and Humanities, Heidelberg, 06 March, 2019.
- 10/2018 "Republikzeitliche chinesische Presse – Crowdsourcing und andere Wege in Richtung Volltext." Vortrag auf dem *Challenge Workshop „Herausforderungen bei der Analyse von alten Schriften im digitalen Zeitalter“ (HAASDZ18)*, Heidelberg, 29./30. Oktober 2018. Slides. Conference website.
- 09/2018 "Early Chinese Periodicals Online (ECPO): From Digitization towards Open Data". Presentation at *The Eighth Conference of Japanese Association for Digital Humanities (JADH2018) "Leveraging Open data"*, Tokyo, September 9-11, 2018. Slides.
- 07/2018 "A Citation Repository in the making: First introduction to 'OpenDACHS'". Presentation to Members of the *Graduate Programme for Transcultural Studies (GPTS)*, July 24, 2018. (Together with Hanno Lecher and Sebastian Vogt)
- 07/2018 "(Projekt)Ende gut – Alles gut? Benutzbarkeit – Verfügbarhaltung – Archivierung." Vortrag gehalten auf der Veranstaltung *Runder Tisch zur Langzeitarchivierung*, Heidelberger Akademie der Wissenschaften, 13. Juli 2018. Slides. Conference website.
- 06/2018 "A Corpus of Chinese Comic Books: Database, Metadata, and Visual Object Recognition." Workshop *Comics Annotation: Designing Common Frameworks for Empirical Research*, Potsdam, June 18, 2018. Slides. Workshop website.
- 06/2018 "Die Heidelberg Research Architecture." Vortrag im Rahmen des Seminars *Einführung in die Digital Humanities*, Dozentin S. Tittel, Heidelberg, 15. und 23. Juni 2018.
- 05/2018 "Die Erschließung eines vielsprachigen bibliographischen Korpus: Der Turkologische Anzeiger online." Vortrag in der Reihe *Interdisziplinäres Forum digitaler Textwissenschaften (InFoDiTex)*, Heidelberg, 8. Mai 2018. Slides. Lecture series website.
- 12/2016 "The Chinese Comics Database." Vortrag im Seminar der Ostasiatischen Kunstgeschichte, Kurs *Grafische Kunst unter dem Banner der Partei? Chinesische Comics: Entwicklung und Perspektiven*, chair: Andreas Seifert, December 15, 2016.
- 11/2016 "Annotating Pilgrimage Maps of Banaras: A Digital Approach." Workshop *Current Trends and Ongoing Projects in Computational Linguistics and Digital Humanities*, University of Würzburg, Chair of Indology, Nov. 17, 2016. (Together with Jörg Gengnagel and Eric Decker.)
- 11/2016 "Videoannotation mit pan.do/ra. Erfahrungen aus Forschung und Lehre." Invited talk at University of Siegen, November 15, 2016. (Together with Eric Decker.)

- 10/2016 "Early Chinese Periodicals Online (ECPO). A Digital Humanities Project of the Heidelberg Research Architecture (HRA)." Presentation for the academic exchange delegation from Kyôto University, Heidelberg, October 17, 2016.
- 08/2016 "Mediating Technology and Research: Digital Humanities Aspects of the Early Chinese Periodicals Online Database." Conference 「數位時代的近代中國婦女史研究」國際學術研討會 (*International Symposium on the History of Chinese Women in Modern Times*), Academia Sinica, Taipei, August 10-11, 2016. Programme.
- 06/2016 "Digital Humanities Projects of the Heidelberg Research Architecture (HRA)." Workshop with members of the *HERA Single Project, CIS-India, and the Chair of Visual and Media Anthropology*, Heidelberg, June 16, 2016.
- 04/2016 "Die Heidelberg Research Architecture (HRA) – Digital Humanities Unit am Exzellenzcluster Asien und Europa." Vortrag vor der *Arbeitsgruppe Wissenschaftsmanagement*, Heidelberg, April 14, 2016.
- 03/2016 "The VRA Core 4 XML Transform Tool." Workshop: *Getting in the Game: Three Free Tools that Take You from Flat Data to RDF* held together with Susan Jane Williams, Greg Reser, and Jeff Mixer. *ARLIS/NA + VRA 3rd Joint Conference 2016*, Seattle, WA, March 8-12, 2016. Abstract.
- 03/2016 "Connecting to the world of Linked Open Data through the VRA Core RDF Ontology." Poster presented together with Trish Rose-Sandler, and Jeff Mixer at the *ARLIS/NA + VRA 3rd Joint Conference 2016*, Seattle, WA, March 8-12, 2016.
- 02/2016 "Einsatz von Annotationssystemen für Bild- und Videomedien. Ein Erfahrungsbericht." Vortrag auf dem *Jahrestreffen des Arbeitskreises "Religion und moderne Massenmedien"*, Heidelberg, 5.2.2016.
- 01/2016 "Annotationssysteme für Bild- und Videomedien." Vortrag in der *Vortragsreihe zur Digitalen Kunstgeschichte*, München, 26.1.2016. (Together with Eric Decker.)
- 10/2015 "Bildannotation im Einsatz." Workshopbeitrag zu *Computing Art. Eine Summerschool zur digitalen Kunstgeschichte*, Heidelberg, 30.9.-2.10.2015. (Together with Violetta Janzen.)
- 07/2015 "Introduction to Early Chinese Periodicals Online (ECPO)." *Heidelberg Research Architecture (HRA) meets Academia Sinica Digital Center (ASDC) – a Workshop*, Heidelberg, July 20-21, 2015.
- 06/2015 "Possible directions for future expansion of the ECPO databases." Workshop 「數位時代下的近代中國婦女史研究」國際學術研討會 (*International Symposium on the History of Chinese Women in Modern Times*), Academia Sinica, Taipei, June 26, 2015.
- 02/2015 "Citation Segmentation from Sparse & Noisy Data: An Unsupervised Joint Inference Approach with Markov Logic Networks." DHd-Tagung 2015 *Von Daten zu Erkenntnissen: Digitale Geisteswissenschaften als Mittler zwischen Information und Interpretation*, Graz, February 23-27, 2015. (Together with Dustin Heckmann [presenter], Anette Frank, Peter Gietz, Christian Roth.) DOI 10.5281/zenodo.4623281 (abstract).

- 10/2014 "Ziziphus - An Online Editor for VRA Core 4 XML Metadata." Session "Steady as she goes: Images and the Visual Resources Association: preserving the past while embracing the future," at the *ARLIS/ANZ Conference*, Auckland Art Gallery Toi o Tāmaki, New Zealand, 15-17 October 2014. Presentation.
- 06/2014 "Research annotation of digital images in HRA projects." Round table *Annotation of Digital Media*, co-organized by DARIAH-DE, Heidelberg, 5.-6.6.2014.
- 05/2014 "Introduction to WoMag and ECPO Databases." Workshop *Constructing a Multilingual Database in the Humanities: Keyword and Concept Structures for the Project "Early Chinese Periodicals Online (ECPO)"*, Toronto, May 22-24, 2014.
- 04/2014 "Digital Humanities Projekte der HRA." Workshop *Methoden und Anwendungen der Digital Humanities in Heidelberg, MADhd*, Heidelberg, 2.-3. April 2014.
- 03/2014 "«Losing My Religion» – Einsatz einer Videoannotationsdatenbank in der kunstgeschichtlichen Analyse von Musikvideos." *Digital Humanities Deutschland, DHd 2014*, Passau, 24.-27.3. 2014. (Together with Thorsten Wübbena.) Slides.
- 03/2014 "VRA Core 4 in Transcultural Studies - Adopting Core 4 in a DH Environment." Session "VRA Core Unbound," *VRA 32nd Annual Conference*, Milwaukee, March 11-14, 2014. Slides.
- 03/2014 "International Copyright Compliance - Use cases from a German Research Institution." Session "Case Studies in International Copyright Compliance," *VRA 32nd Annual Conference*, Milwaukee, March 11-14, 2014. Slides.
- 01/2014 "Periodicals and Newspapers in Projects of the Heidelberg Research Architecture." Workshop *Newspapers and Transculturality: New Approaches to Working with Historical Newspapers*, Heidelberg, 30. 1. 2014.
- 11/2013 "Tamboti: A metadata framework for collaborative research." *Scientific Computing and Cultural Heritage 2013 (SCCH 2013)*, Heidelberg, 19.-20. November 2013. (Together with Eric Decker.)
- 11/2013 "An Introduction to the Heidelberg Research Architecture (HRA)." Workshop *Archives of the Everyday*, NIAS Leiden, October 31 – November 11, 2013. (Together with Eric Decker.)
- 10/2013 "From WoMag to ECPO-Achievements in the Database Development." Conference *Research on Women's Magazines in the Digital Era: The ECPO Project*, Taipei, Academia Sinica, October 28-29, 2013.
- 03/2013 "The Chinese Women's Magazines Database – An Introduction." Roundtable "Gender, the Popular Press and the Digital Humanities: The Development of a Database of Republican Chinese Women's Magazines and Entertainment Newspapers," *AAS 2013 Annual Conference*, San Diego, March 21-24, 2013.
- 11/2012 "Collaborative Video and Image Annotation." *Berliner Gespräche zur Digitalen Kunstgeschichte - I Bildannotation*, 30. November 2012. (Together with Eric Decker.)
- 10/2012 "Selected Digital Humanities Projects of the HRA." Poster presentation, *Cluster of Excellence "Asia and Europe in a Global Context" Annual*

Conference "Things that connect – pathways of materiality and practice", Heidelberg, October 10-12, 2012.

- 06/2012 "Collaborative Video and Image Annotation." Poster presentation at the *Digital Humanities Conference, DH2012*, Hamburg, 18.-20. Juli, 2012. (Together with Cornelia Knab und Eric Decker.)
- 10/2010 "GeoTWIN" and "Visual Resources" in Session "Heidelberg Research Architecture (HRA) - Developing Tools for Cluster Research." *Cluster of Excellence "Asia and Europe in a Global Context" Annual Conference "The Flow of Concepts and Institutions"*, October 7, 2010. (Together with J. Kurtz, D. Withanage, J. Petersen, J. May, A. Mündelein, C. Bertolo, E. Decker.)
- 08/2010 "The Chinese Women's Magazines Database - A Report on the Current State." Workshop *Shifting Language Registers in Late Qing/Republican China*, Montreal, August 17-19, 2010.
- 06/2010 "Visual resources at the HRA." Workshop *An Integrated Online Archive - New Evidence for a Study of Tribal Populations in South Asia and the Himalayas*, London, SOAS, June 17, 2010.
- 02/2010 "Linking and Annotating Images." Workshop *LitLink: A Cue Card System in a Research Environment of Collaborative Work, Online Publishing and GIS*, Reihe "MAK – Methoden und Anwendungen Kolleg", Heidelberg, February 25, 2010.
- 10/2009 "The Heidelberg Research Architecture Projects". Poster presentation at *Cluster of Excellence "Asia and Europe in a Global Context" Annual Conference "Flows of Images and Media"*, Heidelberg, October 7-9, 2009.
- 09/2009 "GIS and Cultural Flows." *SCCH09 - Scientific Computing & Cultural Heritage*, Heidelberg, 16-18.11.2009. (Together with Peter Gietz, Kilian Schultes, Konrad Berner.)
- 03/2009 "Short introduction to the HyperEvaluation Project." Workshop *Transvisual Reading Group*, Heidelberg, March 10, 2009.
- 02/2009 "HyperImage und das Exzellenzcluster 'Asia and Europe in a Global Context'." Konferenz *HyperImage - Bildorientierte e-Science-Netzwerke*, Berlin, February 26-27, 2009. (Together with Peter Gietz.)
- 07/2008 "Buddhist Stone Scriptures of Shandong, China." *EVA London 2008: Electronic Visualisation & the Arts*, London, July 22-25, 2008.
- 07/2008 "Decomposing Inscriptions: Snippets as Link between Text and Image." *Buddhist Epigraphy: State of the Field and New Methodologies*, Heidelberg, July 3-6, 2008.
- 11/2007 "Digitization of Chinese Stone Inscriptions." *Scientific Computing and the Cultural Heritage, SCCH Workshop 2007*, Heidelberg, November 12-14, 2007. (Together with Lothar Ledderose.)
- 09/2007 "Thesaurus Linguae Sericae. An Historical and Comparative Encyclopaedia of Chinese Conceptual Schemes." *27th Annual Meeting of the European Association of Sinological Librarians (EASL)*, Lund, September 12-14, 2007.
- 09/2006 "'Tao-tsang. Travaux d'Index' - A new resource at ChinaResource.org." *26th Annual Meeting of the European Association of Sinological Librarians (EASL)*, Moscow, September 13-15, 2006.

- 05/2006 "Buddhist Stone Scriptures - Documentation of Buddhist Rock Scriptures in China." International Workshop *Building a scientific database for visual and audiovisual media*, Heidelberg, May 23, 2006. (Together with Lothar Ledderose.)
- 04/2005 "Historical Inscriptions at Cloud Dwelling Monastery: Preparations for a CD-ROM." *57th Annual Meeting of the Association of Asian Studies (AAS)*, Chicago, Mar 31 – Apr 3, 2005.
- 11/2004 "Historical Inscriptions at Cloud Dwelling Monastery: Preparations for a CD-ROM." Symposium *Religions in Chinese Script - Perspectives for Textual Research*, Institute for Research in Humanities, Kyoto University. Memorial Symposium for the 75th Anniversary of its Foundation, Kyoto, November 18-21, 2004.
- 08/2004 "Introducing Digital Resources. An Online Course in Chinese Studies." *XVth Biennial Conference of the European Association of Chinese Studies (EACS)*, Heidelberg, August 25-29, 2004.
- 11/2003 "Zhao Mo de guangpan 趙昧的光盤." *Papers in Honor of Professor Luo Zhao: A Symposium for his 60th Birthday*. Heidelberg, November 15, 2003.
- 10/2003 "Schätze für König Zhao Mo – Das Grab von Nan Yue". 3. Workshop "E-Learning. Projekte an der Universität Heidelberg", 23. Oktober 2003.
- 03/2003 "King Zhao Mo's Treasures. A CD-ROM Project on the Tomb of Nan Yue." Symposium *Early Guangdong: Between China and Southeast Asia*. München, March 21-23, 2003.
- 07/2002 "Fangshan. Versuch einer Umsetzung von Begehrbarkeit." Multimedia presentation to the *Fangshan-Workgroup*, Heidelberg, July 16, 2002.
- 03/2002 "Buddhist archaeology and the computer. Preparing for interactivity." Symposium *Recent Research in Buddhist Studies and Buddhist Art History*, Chinese Academy of Science, Department of Buddhist Studies, Beijing, PRC.
- 11/1999 "City of Dead Poets - with selected poems of Yang Lian." Presentation of a CD-ROM by Chiho Hoshino at the East Asian Art History department, University of Heidelberg. (Together with the artist Chiho Hoshino.)
- 09/1995 "Porzellanproduktion in Jingdezhen, VR China." *XXVI. Deutscher Orientalistentag*, Leipzig. (Together with Lothar Ledderose.)

Workshops and teaching

- 05/2022 Session "Creating digital images of physical resources" in class "Digital Methods in South Asian Philology" of Simon Cubelic and Jonas Buchholz, SoSe2022.
- 05/2021 Präsentation of WoMag and ECPO databases, class "*History and Herstory*" of Prof. Mittler, SoSe2021.
- 10/2019 NHDP Workshops at Lalitpur, Patan, Nepal.
- 07/2019 "Annotation of audio-visual data." Workshop at the *2nd Heidelberg Computational Humanities School (HCH19)*, Heidelberg, July 15-19, 2019. (Together with Sebastian Vogt) Abstract and slides.
- 10/2018 NHDP Workshops at Lalitpur, Patan, Nepal.
- 12/2015 Gemeinsamer Workshop DH Lab Basel und HRA Heidelberg, Universität Basel, 16.12.2015.
- 11/2015 "Die Heidelberg Research Architecture (HRA) und das Early Chinese Periodicals Online (ECPO) Projekt." *Workshop zur Vorstellung der Transkulturellen Studien und der Ostasienwissenschaften für Oberschüler*, Heidelberg, 27.11.2015.
- 07/2015 "Introduction to Heidelberg Research Architecture Infrastructure (Tamboti - Ziziphus - Wiki) and class-room use cases." *Heidelberg Research Architecture and the Academia Sinica Digital Center – a Workshop*, Heidelberg, July 20-21, 2015. (Together with Eric Decker)
- Fall 2014 Hands-on workshops for Ziziphus, Tamboti, AtomicWiki, and technical supervision as part of the class "Imag(in)ing the Global Hero—Aesthetics, Politics, Modernity and China" (Prof. B. Mittler). Remote support to Stanford class participants. (Together with Eric Decker)
- 05/2014 "Hands-on introduction: Chinese Women's Magazines in the Late Qing and Early Republican Period." *Berkshire Conference on Women's History, "Histories on the Edge" – Digital Lab*, Toronto, May 25, 2014.
- 04/2014 HRA Workshop with the *HERA Single* Project.
- SoSe 2013 Teaching blocks, HRA introductions, Hands-on workshops for Ziziphus, Tamboti, and AtomicWiki, technical supervision and student support. (Together with Eric Decker) Part of the classes
"Ethnografische Fotografie in Asien und Europa - Ein transkultureller Ansatz" (C. Bublatzky) with exhibition at Kunstverein Heidelberg;
"Urban Anthropology" (R. Gerritsen);
"Popular Culture" (R. Gerritsen)
- WiSe 2012 HRA Introductions to the Cluster's Research Areas (with Eric Decker).
- 2012 10 edit-a-thons - workshops for intensive metadata editing of images from the *Priya Paul Collection of Modern Art*.
- 12/2011 "Introduction to the HRA." Class with GPTS students, Heidelberg, December 08, 2011.
- WiSe 2009 "Heidelberg Digital Resources – With a Focus on East Asia," Classes with GPTS students.

- 06/2009 "Datenbanken im Cluster Asia and Europe mit Bezug zu den Ostasienwissenschaften." Class with GPTS students, June 3, 2009. (Together with Jens Petersen.)
- 02/2009 "Interlinking and annotating (parts of) images - Making use of HyperImage." Workshop for members of the Cluster of Excellence "Asia and Europe", Heidelberg, 9.2.2009.
- 06/2008 "Standards, Tagging und XML – Ein Beispiel aus der Praxis." Historisches Seminar, Kurs "*Geschichte und Medien*", 10.6.2008, Dr. Schultes.
- 06/2008 "Chinesische Datenbanken bei CrossAsia." Workshop der *Virtuellen Fachbibliothek Ost- und Südostasien*, Heidelberg, 4.6.2008.
- 05/2008 "Die Datenbanken im Institut für Sinologie." *Hilfsmittelkurs Modernes Chinesisch*, 29.5.2008, Prof. Mittler.
- 08/2004 "Modern China Digital Resources: A hands-on workshop." 3-day Workshop at the *European Center for Digital Resources in Chinese Studies*, Heidelberg.
- SoSe 2004 "Traditional and Digital Resources for the Study of Pre-Modern China." *Hilfsmittelkurs Klassisches Chinesisch* (together with Michael Lüdke).
- 10/2003 "Digital Resources on Premodern China: A hands-on workshop." 3-day Workshop at the *European Center for Digital Resources in Chinese Studies*, Heidelberg.
- 04/2003 "Modern China Digital Resources: A hands-on workshop." 3-day Workshop at the *European Center for Digital Resources in Chinese Studies*, Heidelberg.
- 04/2003 "Modern China Databases", "Premodern China Databases" Half-day workshops on *New databases at ChinaResource.org*, Institute of Chinese Studies, Heidelberg.
- 05/2000 "'City of Dead Poets - with selected poems of Yang Lian'. A multimedia-CD-ROM by Chiho Hoshino." *Workshop with students of the Institute of Chinese Studies, University of Heidelberg* at Cyperfection agentur für neue medien mbH, Ludwigshafen. Together with Andrea Riemenschneider.

HRA Workshop-weeks

- 02/2014 Introduction to the HRA; Scanning Texts and OCR; Scanning Images and Descreening; Annotating Images (Ziziphus, HeidICON); Workflow Photographieren im Archiv; Basic Image Management (Picasa, Bridge, Lightroom); Photoshop Basics; Photoshop Advanced
- 02/2013 Introduction MediaLab; Workflow Photographieren im Archiv; Scanning and descreening; Optical Character Recognition; Project Slam; Photoshop Basics; Photoshop Advanced; Ziziphus, HeidIcon and image-metadata
- 02/2012 Introduction MediaLab; Scanning and descreening; Optical Character Recognition; HeidIcon, Image-DB and image-metadata; Photoshop Basics; Photoshop Advanced; InDesign Basics; Tools for Visualisation and presentation of results
- 02/2011 Introduction MediaLab; Photoshop basics; Photoshop – advanced; Scanning and descreening; InDesign basics; InDesign - Möglichkeiten

der Postergestaltung; Visualisierung und Präsentation von Ergebnissen; HeidICON - Image metadata and changes in the new version; Optical Character Recognition

08/2010 Introduction MediaLab; HeidICON - Image metadata and changes in the new version; Photoshop basics; Photoshop advanced; Scanning and descreening; OCR - basic workflows; OCR advanced - Abbyy FineReader

11/2009 Hands-on text digitisation and OCR; Image database HeidIcon and image analysis tool HyperImage; Digitisation of visual resources

Datasets

heiDATA / Dataverse:

- Jing bao ground truth – text block crops and annotations; Henke, Konstantin; Arnold, Matthias, 2023-11-02. - 1 Online-Ressource (2 Files)
DOI: 10.11588/data/PVYWKB
- Early Chinese Periodicals Online (ECPO) [Metadata]; Matthias Arnold et al., 2022. - Heidelberg: Universität, 2022-07-27. - 1 Online-Ressource (10 Files)
DOI: 10.11588/data/Z3J0DV
- Turkology Annual Online – Full bibliographic records / Matthias Arnold; Dustin Heckmann; Peter Gietz; Anette Frank; Michael Ursinus; Christian Roth; Arina Chitavong; Jens Hansche; Nicolas Bellm; Mateusz Dolata, 2021. - Heidelberg: Universität, 2021-03-19. - 1 Online-Ressource (5 Files)
DOI: 10.11588/data/GH511N
- Cataloging Cultural Objects (CCO) - the CCO Commons examples in VRA Core 4 XML / Matthias Arnold, Agnes Dober. - Heidelberg: Universität, 2020-07-31. - 1 Online-Ressource (1 File) DOI: 10.11588/data/KKTC9G
- The Abou Naddara Collection - James Sanua's complete works / Ettmueller, Eliane Ursula; Arnold, Matthias; Alisch, Johannes; Sassani, Nina; Kempf, Florian; Harder, Hans. - Heidelberg: Universität, 2017-01-18. - 1 Online-Ressource (1 File) DOI: 10.11588/data/10076
- Nepal Heritage Documentation Project, NHDP / Brosius, Christiane; Michaels, Axel, 2020. - Heidelberg: Universität, 2020-05-26. - 1 Online-Ressource (2 Files) DOI: 10.11588/data/A9DCZA
- Retrodig. Retrodigitalisierung der Grabungsdokumentation des Kastell Heidelberg-Neuenheim: standardisierte Arbeitsabläufe zur Retrodigitalisierung am Fallbeispiel der Grabungsdokumentation Kastell Heidelberg-Neuenheim / Armin Volkmann; Matthias Arnold. - Heidelberg: Universität, 2020-01-09. - 1 Online-Ressource (7 Files) DOI: 10.11588/data/CFRIYD

GitHub:

- Early Chinese Periodicals Online (ECPO)
<https://github.com/hcts-hra/ecpo-data>
<https://github.com/hcts-hra/ecpo-annotator>
<https://github.com/hcts-hra/ecpo-segment>
<https://github.com/hcts-hra/ecpo-fulltext-experiments>
- The Abou Naddara Collection
<https://github.com/exc-asia-and-europe/naddara-app>
<https://github.com/exc-asia-and-europe/naddara-data>
- CCO Examples in VRA Core 4.0 XML
<https://github.com/exc-asia-and-europe/CCO-Samples>